Approved for use through 10/31/2002, OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE E **Application Number** 09/980,329 STATEMENT BY APPLICANT Filing Date March 5, 2002 First Named Inventor Roger J. TALISH MAY 2 4 200 Group Art Unit 3737 (use as many sheets as nece Examiner Name Smith, Ruth S. Sheet Attorney Docket Number 41482/205543 U.S. PATENT DOCUMENTS Document Number Name of Patentee or Applicant of **Publication Date** Cited Document Pages, Columns, Lines, Where Relevant Examine MM-DD-YYYY Cite No.1 Passages or Relevant r Initials Number - Kind Code<sup>2</sup> (if Figures Appear known) US-3,575,050 04/1971 /RSS Lynnworth US-4,195,517 04/1980 Kalinoski, et al. US-4,467,659 08/1984 Baumoel US-4,557,148 12/1985 Akiyama US-4,570,487 02/1986 Gruber US-4,680,967 07/1987 Rost US-4,930,358 06/1990 Motegi, et al. US-5,154,189 10/1992 Oberlander US-5,280,728 01/1994 Sato, et al. US-5,843,741 12/1998 Wong, et al. US-5,856,622 01/1999 Yamamoto, et al. US-5,906,580 05/1999 Kline, Schoder, et al. US-5,954,675 09/1999 Dellagatta US-6,028,066 02/2000 Unger US-6,065,350 05/2000 Hill, et al. US-6,105,431 08/2000 Duffill, et al. US-6,264,650 07/2001 Hovda, et al. US-2003/0153849 08/14/2003 Huckle US-2006/0106424 05/18/2006 Bachem FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Columns, Lines,

Initials*	No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Date MM-DD-YYYY	Applicant of Cite Document	d Where Relevant Passages or Relevant Figures Appear	T®
/RSS/	· · · · · · · ·	EP 0 425 765 A1	05/08/1991	Fraunhofer- Gesellschaft		Abstr
Examiner Signature		/Ruth S. Smith/	Date Consid	lered	07/10/2007	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 09/980,329

Filing Date March 5, 2002

First Named Inventor Roger J. TALISH

Group Art Unit 3737

Examiner Name SMITH, Ruth S.

(use as many sheets as necessary)

Sheet of 2 Attorney Docket Number 41482/205543 **U.S. PATENT DOCUMENTS Document Number** Name of Patentea or Applicant of Publication Date Pages, Columns, Lines, Where Relevant Cited Document Examine MM-DD-YYYY Cite No.1 Passages or Relevant r initials Number - Kind Code<sup>2</sup> (if Figures Appear US-1,063,782 06-03-1913 /RSS G.O. & C.A. Dickey US-2,914,829 12-01-1959 L.F. Willemain US-2,920,853 01-12-1960 J. Bufogle US-3,521,225 07-21-1970 J.I. Kursman et al. 05-23-1972 US-3,664,626 L.J.Sneller US-3,714,619 01-30-1973 Morgan et al. US-3,729,162 04-24-1973 Frank J. Salvato US-3,890,953 06-24-1975 Kraus, et al. US-4,141,524 02-27-1979 Louis Corvese, Jr. US-4,229,992 10-28-1980 McKee et al. US-4,291,025 09-22-1981 Michael A. Pellico US-4,347,645 09-07-1982 Kazuo Iseki US-4,407,044 10-04-1983 Kazuo Iseki US-4,410,158 10-18-1983 Eugene R. Maffei 05-12-1981 US-4,266,532 Ryaby et al. US-4,266,533 05-12-1981 Ryaby et al. US-4,570,927 02-18-1986 Petrofsky et al. US-4,725,272 02-16-1988 Robert M. Gale US-4,917,376 04-17-1990 Lo US-4,928,959 05-29-1990 Bassett, et al. US-5,230,646 07-27-1993 Douglas O. Thorup US-5,368,044 11-29-1994 Cain et al. US-5,425,954 06-20-1995 Thompson et al. US-5,484,388 01-16-1996 Bassett et al. US-6,061,597 05-09-2000 Rieman et al. US-6,190,336 02-20-2001 Duarte et al. US-6,234,975 B1 05-22-2001 McLeod et al. US-6,311,402 B1 11-06-2001 Brandl et al. US-6,322,527 11-27-2001 Roger J. Talish US-6,355,006 03-12-2002 Ryaby et al. US-6,394,955 B1 05-28-2002 Perlitz US-6,406,443 06-18-2002 Roger J. Talish US-6,436,060 08-20-2002 Roger J. Talish US-6,503,214 01-07-2003 Roger J. Talish US-6,524,261 02-25-2003 Talish et al. US-6,685,656 02-03-2004 Duarte et al. US-6,733,468 05-11-2004 Roger J. Talish US-6,932,308 08-23-2005 Talish et al. US-2002/0016557 02-07-2002 Duarte US-2003/0153848 08-14-2003 Talish US-2003/0153849 08-14-2003 Huckle US-2005/0096548 A1 05-05-2005 Talish

Examiner Signature /Ruth S. Smith/ Date Considered 07/10/2007

Talish et al.

07-01-1997

/RSS

D380440

Sheet 1 of 10

Form PTO-1449

Docket No.: 41482-205543

Application No. 09/980,329

Applicant:

Winder et al.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION Use several sheets if necessary)

Filing Date:

March 5, 2002

Group Art Unit 3737

			US PATE	NT DOCUMENTS OF		MERINE X	
Examiner		Patent Number	Date	Patentee	Class	Subclass	
nitial	<del>\</del>	32,782	11/15/88	Pratt, Jr.	<del> </del>	<del></del>	<del> </del>
	<del>-\-</del>	34,959	05/30/95	Potts	<del> </del>	<del>                                     </del>	<del> </del>
	<del></del>	3,134,451	05/26/64	Hanssen	<del> </del>	/	<del> </del>
	<del> </del>	3,193,034	07/06/65	Hutchinson, et al.	<del> /</del>	<del>{</del>	
	<del> </del>	3,193,034	03/21/67	Clynes	<del>  /-</del>	<del> </del>	<del> </del>
	<del>                                     </del>	3,433,663	03/21/67	Underwood	<del>├/</del> ─	<del> </del>	
		3,433,003	03/18/69	Balamuth	<b>/</b>	<del> </del>	<b> </b>
	<b></b>				<del> </del>	ļ	<del> </del>
	<b></b>	3,550,586	12/29/70	Balamuth		<u> </u>	<b></b>
	<u> </u>	3,594,993	07/27/71	Heyse	ļ	ļ	<b></b>
<del></del>		3,701,352	10/31/72	Bosworth	<b> </b>	<b>}</b> '	<del> </del>
	<u> </u>	3,760,799	09/25/73	Crowson	ļ	<del> </del> '	<del> </del>
		3,767,195	10/23/73	Dimick	<u> </u>	<b>}</b>	
	L	3,828,769	08/13/74	Mettler	ļ		L
·	<u> </u>	3,855,638	12/24/74	Pillia			L
		3,961,380	06/08/76	Garr	<u> </u>		<u> </u>
		3,986,212	10/19/78	Sauer			
		4,105,017	08/08/78	Ryaby et al.	[·		Ĺ
		4,127,125	11/28/78	Takemoto et al.			
		4,164,794	08/21/79	Spector, et al.			
		4,170,045	10/09/79	Estes			
		4,176,664	2/04/79	Talish			
		4,206,516	06/10/80	Pilliar			
		4,216,766	08/12/80	Duykers, et			
		4,227,111	10/07/80	Cross, et al.			
		4,233,477	11/11/80	Rice, et al.			
	•	4,269,791	05/26/81	Mikiya, et al.			
		4,296,153	10/27/81	Goudin			
		4,3/2,536	01/26/82	Lloyd			
		4,315,503	12/16/82	Ryaby et al.			٥
	<u> </u>	4,351,069	09/28/82	Ballintyn, et al.			
		4,355,428	10/26/82	Deloison, et al.	<b>-</b>		
		4,358,105	11/09/82	Sweeney, Jr.	-		
		4,361,154	11/30/82	Pratt, Jr.			
<del></del>	/	4,365,359	12/28/82	Raab	1		
	<del>/</del> -	4,383,533	05/17/83	Bhagat et al.			
_/	7Ruth S		12/20/83		7/10/2007		
/		4,440,025	04/03/84	Hayakawa, et al.	<u> </u>		<u> </u>
		4,441,486	04/10/84	Pounds			
xaminer:	<del></del>	17,7,7,00	10	Date Considered:	L		
:xamıner:			1	Date Considered.			1

Sheet 2 of 10

Form PTO-1449

Docket No.: 41482-205543

Application No. 09/980,329

INFORMATION DISCLOSURE
CITATION
IN AN APPLICATION
(Use several sheets if necessary)

Winder et al.

Filing Date: March 5, 2002

Applicant:

Group Art Unit

		ts if necessary)		5, 2002	373		
			微U:S∜PATE	NT/DOCUMENTS被辩	<b>WAR S</b>		
xaminer nitial		Patent Number	Date	Patentee	Class	Subclass	
		4,446,586	05/08/84	Reed et al.		-/	
		4,452,326	06/05/84	Hanssen, et al.			
	`	4,476,874	10/16/84	Taenzer et al.	1		<u> </u>
		4,511,921	04/16/85	Harlan et al.			
		4,530,360	07/23/85	Duarte			
		4,536,894	08/27/85	Galante, et al.			
		4,542,599	09/24/85	Rowe, Jr., et al.			
•		4,542,744	09/24/85	Barnes et al.			1
		4,550,714	11/85	Talish	1		
		4,556,066	12/03/85	Semrow			
		4,570,640	02/18/86	Barsa	1		
		4,573,996	Q3/04/86	Kwiatek, gt al.			
		4,594,662	08(10/86	Devane			
		4,612,160	09/16/86	Donlevy, et al.	1	<u> </u>	
		4,627,429	12/09/86	Tsalk	<u> </u>		
	<u> </u>	4,630,323	12/23/86	Sage et al.	1		
		4,644,942	02/24/87	Sump		· · · · · · · · · · · · · · · · · · ·	
		4,677,438	06/30/87	Michiguchi et al			
	<u> </u>	4,687,195	08/18/87	Potts			
		4,708,127	11/24/87	Abdelahani		f	
·		4,710,655	1/2/01/87	Masaki		i	
	i	4,770,184	09/13/88	Greene, Jr. et al.	<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·	
	, · · · · · ·	4,726,099	02/23/88	Card	1		
		4,763,661	08/16/88	Sommer et al.			
		4,774,959	10/04/88	Palmer et al.	<del>                                     </del>	***************************************	
		4,782,822	11/08/88	Ricken			
		4,787,070	11/22/88	Suzuki et al.			
		4,787,888	11/29/88	Fox			
		4,792,336	12/20/88	Hlavacek, et al.			
		4,802,477	02/07/89	Gabbay			
		4,830,015	05/16/89	Okazaki			
	/	4,836,316	06/06/89	Carnevale, et al.			1
		4,855,911	08/08/89	Lele et al.			
		4,858,599	08/22/89	Halpern	1	1	1
		4 867 169	09/19/89	Machida et al.	7/10/202	, \	
	-/Ruth	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	01/09/90	Robinson	<del>                                     </del>	<b>\</b>	<del></del>
/		4,905,671	03/06/90	Senge et al.	1		
/	<b> </b>	4,913,157	04/03/90	Pratt, Jr. et al.	1		
	t	4,917,092	04/17/90	Todd, et al.	† — —		
···	<del>                                     </del>	4,926,870	05/22/90	Brandenburger	1		
xaminer:	•			Date Considered:			•

Sheet 3 of 10

Application No. Docket No.: 09/980,329 Form PTO-1449 41482-205543 Applicant: INFORMATION DISCLOSURE Winder et al. CITATION **Group Art Unit** Filing Date: IN AN APPLICATION March 5, 2002 3737 (Ose several sheets if necessary) WAR THE REPORT OF THE PARTY OF Palent Number Date Patentee Class Subclass. Examiner Initial 06/12/90 Liboff et al. 4,932,951 06/12/90 Card, et al. 4,933,230 Detwiler et al. 06/26/90 4,936,303 07/17/90 Pratt, Jr. 4,941,474 08/14/90 Hon 4,947,853 4,979,501 12/25/90 Valchanov et al. 4,982,730 01/08/91 Lewis, Jr. Ishida et al. 4,986,275 01/22/91 McLeod et al. 4,993,413 02/19/91 02/26/91 Demane, et al. 4,995,883 03/19/91 Bonnefous 5,000,183 Dalebout, et al. 5,000,442 03/19/91 5,003,965 04/02/91 Talish of al. 04/02/91 Cook 5,004,476 Sonwartz 5,016,641 05/21/91 05/28/9 Zolman, et al. 5,018,285 Bassett, et al. 09/10/91 5,046,484 10/08/92 Rossman et al. 5,054,490 L'hoff et al. 5,067,940 11/26/91 01/14/92 Bellis 5,080,672 5,088,976 02/18/92 Liboff et al. 03/31/92 French 5,099,702 03/31/92 Liboff et al. 5,100,373 04/14/92 McLeod et al. 5,103,806 Liboff et al. 5,106,361 04/21/92 04/28/92 Plyter 5,107,833 04/28/92 Fallin 5,108,452 Smith 07/28/92 5,1/33,420 134,999 08/04/92 Osipov Astudillo Ley 08/18/92 5,139,498 08/25/92 Stouffer et al. 5,140,988 09/01/92 Kwon et al. 5,143,069 09/92 Dory 5,143,073 Peters, et la. 11/17/92 5,163,598 12/22/92 Kulow et al. 5,172,692 /Ruth S. 01/10/200 01/12/93 Vago 25, 478, 134 01/26/93 Viebach, et al. 5,181,512 02/09/93 Grzeszykowski 5,184,605 02/16/93 Talish et al. 5,186,162 03/09/93 McLeod et al. 5,191,880 Date Considered: Examiner:

Sheet 4 of 10

Form PTO-1449

Docket No.: 41482-205543 Application No. 09/980,329

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Winder et al.

Filing Date: March 5, 2002

Applicant:

Group Art Unit 3737

(Use several she	1	- · · · · · · · · · · · · · · · · · · ·			37			
			NT:DOCUMENTS 解練			理性學院		
xaminer Itial	Patent Number	Date	Patentee	Class	Subclass			
The state of the s	5,197,475	03/30/93	Antich et al.	<del> </del>		<del>                                     </del>		
	5,201,766	04/13/93	Georgette					
	5,209,221	05/11/93	Riedlinger	1		<del> </del>		
	6,211,160	05/18/93	Talish et al.			<del> </del>		
	5,330,334	07/27/93	Klopotek	-		<del>                                     </del>		
	5,230,345	07/27/93	Curran, et al.			<del>                                     </del>		
	5,230,921	07/27/93	Waltonen, et al.	/		<del> </del>		
<del></del>	5,235,98	08/17/93	Hascoet et al.			<del> </del>		
	5,254,123	10/19/93	Bushey					
	5,259,384	11/09/93	Kaufman et al.			<del>                                     </del>		
	5,269,306	12/14/93	Warnking, et al.			<del>                                     </del>		
	5,273,028	12/28/93	McLeod, of al.		· · · · · · · · · · · · · · · · · · ·	<del> </del>		
	5,284,143	02/08/94	Rattner			1		
	5,285,788	02/16/94	Arenson et al.		<u> </u>	<u> </u>		
	5,295,931	03/22/94	Dreibelbis, et al.		······	1		
	5,301,683	04/12/94	Durkan			<del> </del>		
	5,307,284	04/26/94	Brunfeldt et al.					
	5,309,898	05/10/94	Kaufman et al.	<del>                                     </del>				
	5,310,408	05/10/94	Schryver, et al.					
	5,314,401	05/24/94	Террог					
	5,316,000	95/31/94	Chapelon, et al.					
	5,318,561	06/07/94	McLeod et al.		· · · · · · · · · · · · · · · · · · ·	<u> </u>		
	5,318,779	06/07/94	Hakamatsuka et al.					
	5,322,067	06/21/94	Prater et al.					
	5,323,769	06/28/94	Bommannan, et al.			1		
	5,327,890	07/12/94	Matura et al.			1		
	5,330,481	07/19/94	Hood, et al.					
	5,320,489	07/19/94	Green, et al.					
	5,334,214	08/02/94	Putnam					
	5,339,804	08/23/94	Kemp					
	5,340,510	08/23/94	Bowen					
	5,351,389	10/04/94	Erickson et al.					
	5,363,850	11/15/94	Soni et al.					
	5,366,465	11/22/94	Mirza					
(5.4)	5,367,500	11/22/94	Ng	740,6000				
/Ruth	\$ 3,376,065	12/27/94	McLeod et al.	7/10/2001				
	5,380,269	01/10/95	Urso					
	5,386,830	02/07/95	Powers et al.					
	5,393,296	02/28/95	Rattner					
	5,394,878	03/07/95	Frazin et al.					
	5,398,290	03/14/95	Brethour	<u> </u>		T		

Sheet 5 of 10

Application No. Docket No.: 09/980,329 Form PTO-1449 41482-205543 Applicant: INFORMATION DISCLOSURE Winder et al. CITATION IN AN APPLICATION Group Art Unit Filing Date: March 5, 2002 3737 (dise several sheets if necessary) Class Patentee Subclass Patent Number Date Examiner Initial Murphy, et al. 5,400,795 03/28/95 04/11/95 Conta, et al. 5,405,389 04/25/95 Rattner 5,409,446 05/09/95 Castel 5,413,550 3415,167 05/16/95 Wilk 5,417,215 05/23/95 Evans et al. Kawano et al.. 06/13/95 5,424,650 07/11/95 Holden 5,431,612 5,434,827 07/18/95 Bolorforosh Hileman et al 08/15/95 5,441,051 08/15/95 Fareed 5,441,058 5,448,994 09/12/95 Iinuma Hall, et al. 10/24/95 5,460,595 11/14/95 Lair et al. 5,466,215 5,468,220 11/21/95 Sycher 12/19/9 Edrich, et al. 5,476,438 Stoner 5,478,306 12/26/95 5,492,525 02/20/9 Gibney 03/05/96 Uchara et al. 5,495,846 Bock et al. 5,496,256 03/05/96 83/26/96 Feero 5,501,657 04/16/96 Strickland 5,507,800 DeMane, et 04/16/96 5,507,830 Davidson, et a 5,509,933 04/23/96 Winder et al. 5,520,612 05/28/96 5,524,624 06/11/96 Tepper, et al. Granz, et al. 5,526,815 06/18/96 5,541,489 07/30/96 Dunstan ,547,459 08/20/96 Kaufman et al. 09/17/96 Talish et al. 5,556,372 Pohl et al. 5,578,060 11/26/96 Safari, et al. 5,615,466 04/01/97

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Ryaby, et al. Markowitz et al.

Hossack, et al.

Watanabe, et al.

Gentilman, et al.

Date Considered:

Carodiskey

<del>01/10/200</del>7

Crowley

King

Ogden

05/06/97

05/06/97

05/20/97

07/15/97 08/12/97

10/28/97

11/25/97

11/25/97

12/23/97

Examiner:

5,626,554

5,626,630 5,630,837

5,656,016

5,680,863

5,690,608

5,691,960

5,699,803

/Ruth S. |S明期8,941

Sheet 6 of 10

CITATION
IN AN APPLICATION
(Use several sheets if necessary)

Filing Date:

e: Group Art Unit March 5, 2002 3737

(Use several sheets if necessary)		3	March 5, 2002			3737			
			会U:S:(PATE	NT:DOCUMENTS #					
Examiner Initial		Patent Number	Date	Patentee	Class	Subclass			
		5,702,353	12/30/97	Guzzini, et al.					
		5,702,389	12/30/97	Taylor, et al.	i				
		5,706,818	01/13/98	Gondo					
		5,708,236	01/13/98	Shaanan, et al.					
•		5,721,400	02/24/98	Haraldsson, et al.	7				
		5,725,482	03/10/98	Bishop	7				
		5,728,005	03/17/98	Taylor et al.	/				
		5,730,703	03/24/98	Talish, et al.					
•		5,738,625	04/14/98	Gluck					
		5,741,317	04/21/98	Ostrow			1		
	<u> </u>	5,743,862	04/28/98	Izumi					
	<b> </b>	5,755,746	05/26/98	Lifshey, et al.					
		5,762,616	06/09/98	Talish			<del></del>		
		5,779,600	07/14/98	Pape	<u> </u>				
		5,785,656	07/28/98	Chrabrera, et al.					
		5,818,149	10/06/98	Bafari et al.					
		5,829,437	11/03/98	Bridges					
		5,868,649	02/09/99	Krickson, et al.		· · · · · · · · · · · · · · · · · · ·			
<del></del>		5,871,446	02/16/99	Wilk					
		5,886,302	03/23/99	Germanton, et al.					
		5,891,143	04/06/99	Taylor et al.					
		5,899,425	05/04/99	Corey Jr., ot al.					
		5,904,659	05/18/99	Duarte, et al.					
	1	5,957,814	09/28/99	Eschenbach	<del></del>				
		5,971,984	10/26/99	Taylor et al.					
		5,997,498	12/07/99	McLeod, et al.					
		6,019/10	02/01/00	Dalebout, et al.	<b>/</b>				
		6,022,349	02/08/00	McLeod, et al.					
		6,030,386	02/29/00	Taylor et al.					
		6,068,596	05/30/00	Weth, et al.	. \	\			
		6,080,088	06/27/00	Petersen, et al.					
		6,086,078	07/11/00	Ferez					
		6,093,135	07/25/00	Huang					
		6,165,144	12/26/00	Talish, et al.					
	1	6.179.797	01/30/01	Brotz	1				
	-/Ruth	S 8,200,843	03/2001	Iger, et al.	<del>- (17/10/200</del>	/			
		6,213,958	04/10/01	Winder					
/	<b>†</b>	6,261,221	07/17/01	Tepper, et al.					
	1	6,261,249	07/17/01	Talish, et al.					
		6,273,864	08/14/01	Duarte					
		6,360,027	03/19/02	Hossack et al.					
Examiner:	•	• • • • • • • • • • • • • • • • • • • •	******	Date Considered:					

Sheet 7 of 10

Form PTO-1449	Docket No.: 41482-205543	Application No. 09/980,329
INFORMATION DISCLOSURE CITATION	Applicant: Winder et al.	
IN AN APPLICATION (Use several sheets if necessary)	Filing Date: March 5, 2002	Group Art Unit 3737

xaminer itial	P KOVII INKOLOGI	Document Number	Date	Country		Class	Sub	dass	Trans	lation
/RSS/	\ v	VO 85/03449	08/15/85	PCT		1				
		156983A	10/16/85	UK	-					
		181 506 A2	05/21/86	Europe						
+-+		HO 62[1987]-47359	03/02/87	JAPAN				-	1	
+ +		E 3639263 A1	06/25/87	Germany	·					
	.1	/O 88/00845	02/11/88	PCT						
+++		VO 88/02250	04/07/88	PCT		$\top$				
<del>-  -</del>		31 348 A1	09/06/89	Europe						
<del>  -</del> -		VO 90/06720	06/28/90	PCT						
<del>-  </del>		E 41 11 055 A1	10/10/01	Germany	$\neg \uparrow$	-1-				
<del>- </del>		EI 4[1992]-82567	03/16/92	JAPAN	_				1	
<del></del>		EI 4[1992]-82568	03/16/92	JAPAN					1	
		EI 4[1992]-82569	03/16/92	JAPAN					1	
		536 875 A1	04/14/93	Europe						
<del>                                     </del>		EI 5[1993]-269159	10/19/93	JAPAN					<b>†</b>	
+		,328,485	04/12/94	CA					1	
-		VO 94/13411	06/23/94	PCT		$\top$			†	
		277448A	11/02/94	UK		_			†	
+-+		O 95/03744	02/09/95	PCT						
+		679 371 A1	11/02/95	Europe					†	
		VO 95/33416	12/14/95	PCT						
		P 0 695 559	02/07/96	Europe						
+		/O 96/25112	08/22/96	PCT		十一			† — <u> </u>	
+		VO 96/25888	08/29/96	PCT	$\neg$					
		E 19613425	01/16/97	Germany					1	
<del> </del>		303 552 A	02/26/97	UK	_	1			†	
<del>  </del> -		VO 97/33649	09/18/97	PCT	_				1 -	
<del>-}</del>		VO 98/10729	03/19/98	PCT					1.	
+		VO 98/34578	08/13/98	PCT					1	
•	1	VO 98/47570	10/29/98	PCT					1	
/RSS/		E 208 11 185 UI	12/11/98	Germany	-	_		no	doba	
(500)	- v	VO 99/18876	04/22/99	PCT						
/RSS/		/O 99/22652	05/14/99	PCT		1				
<del>  -</del>	•	VO 99/48621	09/30/99	PCT	$\neg$					
<del>-   -  </del>		/O 99/56829	11/11/99	PCT	$\neg \uparrow$					
		がり/00/28925	05/25/00	PCT	0//	10,2007				
/RSS/		VO 00/03663*	01/27/00	PCT						
111001		U 199950292	02/07/00	Australia				<del></del>	- "	<del>-co</del>
/Dee/	- V	VO 00/71207	11/30/00	PCT						
/RSS/		/O 00/76404	12/21/00	PCT					no	cor

<sup>\*</sup>For English version see related Australian Application No. 19950292

Sheet 8 of 10

Form PTO-1449  INFORMATION DISCLOSURE CITATION  IN AN APPLICATION  (I/Sus prevent a sheet if in decessary)  Filing Date:  March 5, 2002  Saminer Initial  Including Author, Title, Date, Perlinent Pages, Etc.  Initial  IRSS/ ABSTRACT, (Proceedings of the 11* Int1. Conference on Medical and Biological Engineering) ***ULTRASONIC STIMULATION OF FRACTURE HEALING*, 1976.  ABSTRACT, (Proceedings of the 11* Int1. Conference on Medical and Biological Engineering) ***ULTRASONIC STIMULATION OF FRACTURE HEALING*, 1976.  ABSTRACT, (Proceedings of the 118 December 1978.  ABSTRACT, (Proceedings of the 118	ſ			Docket No.:	Application No.
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Jos osward sheets if necessary) Including Author, Title, Date, Pertinent Pages, Etc.  Including Author, Title, Date, Pertinent Pages, Etc.  ABSTRACT, (Proceedings of the 11th Intl. Conference on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1976.  ABSTRACT, (Proceedings of the 11th Intl. Conference on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1976.  ABSTRACT, (Proceedings of the 11th Intl. Conference on Medical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the 11th Intl. Conference on Medical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the 11th Intl. Conference on Medical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the 11th Intl. Conference on Medical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES", 1977.  ASTM Designation: 0116-190, "Standard Test Method for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials Method for Flexural Strength of Advanced Ceramics at Ambient Temperature, 19, p324-330 (Feb. 1991)  ASTM Designation: 0116-190, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature, 19, p324-330 (Feb. 1991)  ASTM Designation: 0116-190, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature, 19, p324-330 (Feb. 1991)  ASTM Designation: 0116-190, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature, 19, p324-330 (Feb. 1991)  ASTM Designation: 0116-190, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature, 19, p324-330 (Feb. 1991)  ASTM Designation: 0116-190, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature, 19, p324-330 (Feb. 1991)  ASTM Designation: 0116-190, "Standard Test Method for Flexural Strength of A		Form PTO	-1449	41482-205543	09/980,329
CITATION IN AN APPLICATION (Use several sheets if necessary)  Filing Date: March 5, 2002  STATULATION TITLE, Date, Pertinent Pages. Including Author, Title, Date, Pertinent Pages, Etc.  ABSTRACT, (Proceedings of the 11º Init1. Conference on Medical and Biological Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the 10º Biological Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the 10º Brozilain Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1977.  ASTM Designation. 2790M3 Metric, "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 176-184, (Dec. 1993).  ASTM Designation. 2790M3 Metric, "Standard Test Methods for flexural Strength of Advanced Ceramics at Ambient Temperature, pp. 324-330,(Feb. 1991).  Temperature, pp. 324-330,(Feb. 1991).  ASTM Designation. 2790M3 Metric, "Standard Test Methods for flexural Strength of Advanced Ceramics at Ambient Temperature, pp. 324-330,(Feb. 1991).  ASTM Designation. 2790M3 Metric, "Standard Test Methods for flexural Strength of Advanced Ceramics at Ambient Temperature, pp. 324-330,(Feb. 1991).  ASTM Designation. 2790M3 Metric, "Standard Test Methods for flexural Strength of Advanced Ceramics at Ambient Temperature, pp. 324-330,(Feb. 1991).  ASTM Designation. 2790M3 Metric, "Standard Test Methods for flexural Strength of Advanced Ceramics at Ambient Temperature, pp. 324-330,(Feb. 1991).  ASTM Designation. 2790M3 Metric, "Standard Test Methods for flexural Strength of Titles Strengt				Applicant:	
Superior Sheets in Incusting Author, Title, Date, Pertinent Pages, Etc.   Superior Sheets in Incusting Author, Title, Date, Pertinent Pages, Etc.   Including Author, Title, Date, Pertinent Pages, Etc.   ABSTRACT, (Proceedings of the III* Conferes on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1976.   ABSTRACT, (Proceedings of the III Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS PORMATION IN BONES", 1975.   ABSTRACT, (Proceedings of the IV Brazilain Congress on Biomedical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES", 1977.   ASTM Designation: D190M-93 Metric, "Standard Test Method for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials Method, Dec. 1983).    ASTM Designation: 0. 161-90. "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 242-330 (Feb. 1991)    Are all at a., "THE EffECT Of LUTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS". BRAGS 17, 1993.    Berridge, M.J., "Inosticid Trisphosphate and Calcium Signaling", Nature (1993), 361: 315-325.    Clarke, P.R. et al., "Physical and Oftenical Aspects of Ultrasonic Disruption of Cellis", JASA (1969), 47(2): 649-653.    Duarte, L.R., "The Simulation of Berne Growth by Ultrasound", Arch. Orthop. Trams Surry (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone inc., New York, Chapter 11.    Goodship, A.E. et al., "The Influence of Induced Microonovement Upon the Healing of Experimental Tribial Fractures", J. Bone and Joint Sury (1984), 76-4(1): 86-5.    Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Ultrasound", J. Bone and Joint Sury (1985), 67-8(1): 86-5.    Heckman, J.D.,		INFO		Winder et al.	
Clase several sheets if necessary    March 5, 2002   3737	.	•			
Examiner Including Author, Title, Date, Pertinent Pages, Etc.  IRSS/  ABSTRACT, (Proceedings of the 11st Incl. Conference on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1976.  ABSTRACT, (Proceedings of the 11st Incl. Conference on Medical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the IN Brazilain Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the IN Brazilain Congress on Biomedical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES", 1977.  ASTM Designation: 0790M-93 Metric, "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 176-184, (Dec. 1993).  ASTM Designation: 07160M-93 Metric, "Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 176-184, (Dec. 1993).  ASTM Designation: 07160M-93 Metric, "Standard Test Methods for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-330 (Feb. 1991).  ASTM Designation: 07160M-93 Metric, "Standard Test Methods for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-330 (Feb. 1991).  ASTM Designation: 07160M-93 Metric, "Dec. 1991, "Nature Plasting," Nature (1993), 1911-153-159.  Discenting the dec. 1991, "Dec. 1991, "Astm. 1991, "Nature Plasting," Nature (1993), 1911-153-159.  Discenting the dec. 1991, "Dec.					i '
RSSI   ABSTRACT, (Proceedings of the 11 <sup>th</sup> Int1 Conference on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1976.    ABSTRACT, (Proceedings of the 11 <sup>th</sup> Int1 Conference on Medical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.   ABSTRACT, (Proceedings of the IV Brazilain Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.   ABSTRACT, (Proceedings of the IV Brazilain Congress on Biomedical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES", 1977.   ASTM Designation: C1161-50", Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 176-184, (Dec. 1993).   RSSI   RS				<u> </u>	
Initial  IRSS/ ABSTRACT, (Proceedings of the 11° Init' Conference on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1976.  ABSTRACT, (Proceedings of the III Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the IV Brazilain Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the IV Brazilain Congress on Biomedical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES", 1977.  ASTM Designation: 0780M-93 Micro, "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insuling Materials [Metric]", pp. 176-184, (Dec. 1993).  ASTM Designation: 07161-90, "Standard Test Methods for Flexural Strength of Advanced Ceramics at Ambient Temperature", pp. 2324-330 (Feb. 1991).  ASTM Designation: 07161-90, "Standard Test Methods for Flexural Strength of Advanced Ceramics at Ambient Temperature", pp. 2324-330 (Feb. 1991).  Arai et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS", BRAGS 11993.  Berridge, M.J., "Inositol Trisphosphate and Calcium Signaling", Nature (1993), 381: 315-325.  Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", ASA (1999), 47(2): 649-653.  Duarte, L.R., "The Stimulation of Bone Growth by Ultrasound", Arch. Orthop, Trauma Surg (1993), 101: 153-159.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1994), 76-A(1): 26-9-6-85.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Putsed Ultrasound", J. Bone and Joint Surg. (1994), 76-A(1): 26-9-6-85.  Heckman, J.D. et al., "Acceleration of Distal Radial Fractures with the Use of Spec	ļ				
ABSTRACT, (Proceedings of the 1" Int'l. Conference on Medical and Biological Engineering) "ULTRASONIC STIMULATION OF FRACTURE HEALING", 1975.  ABSTRACT, (Proceedings of the III Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the III Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975.  ASTM Designation: 0790H-93 Metric. "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric], pp. 176-184, (Dec. 1993).  ASTM Designation: 07161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp.324-330 (Feb. 1991)  Temperature, "pp.324-330 (Feb. 1991)  Bordinge, M.J., "Inositol Trisphosphate and Calcium Signaling," Nature (1993), 361: 315-325.  Clarke, P.R., et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", JASA (1999), 47(2): 649-653.  Duarte, L.R., "The Stimulation of Bone Growth by Ultrasound", Arch. Orthop. Trauma Surg (1983), 101: 153-159.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds.; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Heating of Experimental Tibial Fractures", J. Bone and Joint Surg. (1989), 76-14(1): 850-855.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Heating by Non-Invasive Low-Intensity Pulsed Ulrasound", J. Bone and Joint Surg. (1989), 78-A(1): 860-855.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Williams of Calcium Stream of Tibial Fractures", J. Bone and Joint Surg. (1989), 78-A(1): 860-855.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Williams of Calcium Stream, 1980.  Kristiansen, T.K. et al., "Acceleration of Tibial Fracture with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1989), 78-A(1): 860-855.  Politics of Politics of Calciu	ı		Including Author, Title, Date, I	Pertinent Pages, Etc.	
STIMULATION OF FRACTURE HEALING*, 1976.  ABSTRACT, (Proceedings of the III Corpers on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES*, 1975.  ABSTRACT, (Proceedings of the IV Serzilain Congress on Biomedical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES*, 1977.  ASTM Designation: D'90M-93 Metric, "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric," pp. 176-184, (Dec. 1993).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-330, (Feb. 1991).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-330, (Feb. 1991).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-330, (Feb. 1991).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-330, (Feb. 1991).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-330, (Feb. 1991).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-332.  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature," pp. 324-325.  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Ceramics and Ambient Temperature," pp. 324-325.  Clarke, P.R. et al., "The Strength of Ceramics and Ceramics of Ultrasonic Disruption of Cells," J.A.S.A (1993), 361: 315-315.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds.; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.C. et al., "The Influence of Induced Micromovement Upon the Heating of Experimental Tibial Fractures," J. Bone and Joint	- 1		ABSTRACT (Proceedings of	the 11th Int'l Conference on Medical and	Piological Engineering) #1 II TRASONIC
FORMATION IN BONES", 1975.  ABSTRACT, (Proceedings of the IV Brazitain Congress on Biomedical Engineering) "ULTRASOUND IN THE TREATMENT OF FRACTURES", 1977.  ASTM Designation: D790M-93 Metric. "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 175-184, (Dec. 1983).  ASTM Designation: C7161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature", pp. 324-330 (Feb. 1991).  ASTM Designation: C7161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature", pp. 324-330 (Feb. 1991).  ATAI et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS", BRAGS 17, 1993.  Berridge, M.J., "Inositol Trisphosphate and Calcium Signating", Nature (1993), 361: 315-325.  Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasounic Disruption of Cells", JASA (1969), 47(2): 649-653.  Duarte, L.R., "The Stimulation of Bone Growth by Ultrasound", Arbo Orthop. Trauma (1983), 101: 153-159.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-81(4): 650-655.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Ultrasound", J. Bone and Joint Surg. (1984), 76-4(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Knatiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-4(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, Un	1	/RSS/			biological Engineering) OLTRASONIC
TREATMENT OF FRACTURES', 1977.  ASTM Designation: 7909M-39 Metric, "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 176-184, (Dec. 1993).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature", pp. 324-330 (Feb. 1991).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature", pp. 324-330 (Feb. 1991).  Arai et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS", BRAGS 17, 1993.  Beridge, M.J., "Inositol Trisphosphate and Calcium Signaling", Nature (1993), 361: 315-325.  Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", JASA (1969), 47(2): 649-653.  Duarte, L.R., The Stimulation of Bone Growth by Ultrasound", Inc. Orthop. Trauma Surg (1983), 101: 153-159.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-8(4): 650-655.  Heckman, J.D. et al., "Accertated Fresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-97.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Poblice, S.A., et al., "Scendated Healing of Obstal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. Intensity Ultrasound", Discussion, Low-Intensity Ultrasound (1994), 1995, 1997.  RSDnetorg "Reflex Sympath			FORMATION IN BONES", 19	<b>75</b> .	
Plastics and Electrical Insulating Materials [Metric]*, pp. 176-184, (Dec. 1993).  ASTM Designation: C1161-90, "Standard Test Method for Flexural Strength of Advanced Ceramics at Amblent Temperature," pp. 324-330, (Feb. 1991)  Orochane. The Octence Dethird the Technology, distributed by Smith's Nephron for EXOSEN. (no date)  (IRSS)/ Arai et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTECPOROSIS*, BRAGS 17, 1993.  Berridge, M.J., "Inositol Trisphosphate and Calcium Signaling", Nature (1993), 361: 315-325.  Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", JASA (1989), 47(2): 649-653.  Duarte, L.R., "The Stimulation of Bone Growth by Ultrasonic Disruption of Cells", JASA (1989), 47(2): 649-653.  Duarte, L.R., "The Stimulation of Bone Growth by Ultrasonic Disruption of Cells", JASA (1989), 47(2): 649-653.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1994), 67-64(1); 26-34.  Helckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Ultrasound", J. Bone and Joint Surg. (1994), 76-A(1); 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., 'Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Kristiansen, T.K. et al., "Accertaed Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-4(7) 961-97.  Maurice Hitario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Poethies, P.A., et al., Pathoda, Biological Papair and Growth Society, Juna 1998.  Proenix (Relex Sympathetic Dystrophy, "www.rsdnet.org (06/04/97)"  Reflex			TREATMENT OF FRACTURE	S", 1977.	•
In Case Brockure: The Science Schind the Technology: distributed by Smith & Nephew for EXOSEN: (no date)  RSS/ Arai et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS", BRAGS 17, 1993.  Berridge, M.J., "Inositol Trisphosphate and Calcium Signaling", Nature (1993), 361: 315-325.  Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cellis", JASA (1969), 47(2): 649-653.  Duarte, L.R., The Stimulation of Bone Growth by Ultrasound", Arch. Orthop. Trauma Surg (1983), 101: 153-159.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-8(4): 650-655.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Ultrasound", J. Bone and Joint Surg. (1994), 76-A(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bona and Joint Surg. (1997), 79-A(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pothise, B.A., et al., "Abetreal, Biological Repair and Growth Sociaty, June 1998  Phoenix (Business Wire), July 8, 1997 via CompanyLink – OrthoLogic Corp.  "Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)  Reflex Sympathetic Dystrophy, "The Pain That Doesn't Stop," tec. co.ne. us (06/04/97)  Reflex Sympathetic Dystrophy. The Pain That Doesn't Stop," tec. co.ne. us (06/04/97)  Reflex Sympathetic Dystrophy. The Pain That Doesn't Stop," tec. co.ne. us (06/04/97)  T			Plastics and Electrical Insulati	ng Materials [Metric]", pp. 176-184, (Dec.	1993).
RSS  Arai et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOSIS", BRAGS 17, 1993.	- 1	/RSS/			ngth of Advanced Ceramics at Ambient
RSS    Arallet al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS", BRAGS 17, 1993.	nd	date_			
Berridge, M.J., "Inositol Trisphosphate and Calcium Signaling", Nature (1993), 361: 315-325.  Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", JASA (1969), 47(2): 649-653.  Duarte, L.R., The Simulation of Bone Growth by Ultrasound", Arch. Orthop. Trauma Surg (1983), 101: 153-159.  Dyson, M., Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Heating of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-8(4): 650-655.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Ultrasound", J. Bone and Joint Surg. (1984), 76-A(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1989), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.  Maurice Hilario - (10-WINTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pethies, B.A., et al., "Abstrayt, Biological Ropair and Growth Society, Juna 1998.  RSS/ Phoenik (Business Wire), July 8, 1997 via CompanyLink - OrthoLogic Corp.  "Reflex Sympathetic Dystrophy. The Pain That Doesn't Stop," (cc. cn. us (06/04/97))  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., The Vascular Response to Fracture Micromovement", Clinical Orthopadedics and Refleted Research (1994), 201-1281-290.  Wang, S.J	ł	/RSS/			
Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", JASA (1969), 47(2): 649-653.  Duarte, L.R., "The Stimulation of Bone Growth by Ultrasound", Arch. Orthop. Trauma Surg (1983), 101: 153-159.  Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-8(4): 550-555.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Utrasound", J. Bone and Joint Surg. (1994), 76-A(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-4(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pethica, B.A., et al., "Abstract, Biological Repair and Growth Sociaty, Juna 1988.  Phoenix (Business Wire), July 8, 1997 via CompanyLink – OrthoLogic Corp.  "Reflex Sympathetic Dystrophy, Dees RSD Exist?" www.arbon.com (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.: Draper E.R.C.: Strachan, R.K.: McCarthy, I.D.; Hughes, S.P.F., The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 31: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Trealment Increases Aggrecan Gene Expression in a Rat Femuri Fioroblasts", U	ŀ	/11/00/			
Duarte, L.R., "The Stimulation of Bone Growth by Ultrasound", <i>Arch. Orthop. Trauma Surg</i> (1983), 101: 153-159.  Dyson, M., "Therapeutic Applications of Ultrasound", <i>Biological Effects of Ultrasound</i> (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", <i>J. Bone and Joint Surg</i> . (1985), 67-8(4): 650-655.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Utrasound", <i>J. Bone and Joint Surg</i> . (1994), 76-A(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", <i>JASA</i> (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", <i>Ultrasonics</i> (1969), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", <i>J. Bone and Joint Surg</i> . (1997), 79-A(7) 961-973.  Marrice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Politios, S.A., et al., Abekael, Biological Repair and Growth Sociaty, Juna 1998.  IRSSI Phoenix (Business Wire), July 8, 1997 via CompanyLink – OrthoLogic Corp.  "Reflex Sympathetic Dystrophy." The Pain That Doesn't Stop, "toc.cc.nc.us (06/04/97)"  "Reflex Sympathetic Dystrophy." The Pain That Doesn't Stop," toc.cc.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", <i>Physiotherapy</i> (1987), 73(3): 110-113.  Wallace, A.L.: Draper E.R.C.: Strachan, R.K.: McCarthy, I.D.: Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", <i>Clinical Orthopaedics and Related Research</i> (1994), 301: 281-290.  Wang, S.J. et al., "Tow-Intensity Ultrasound	Ì				
Dyson, M., Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-B(4): 650-655.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Utrasound", J. Bone and Joint Surg. (1994), 76-A(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1989), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pethice, B.A., et al., "Abetrael, Biological Repair and Growth Society, Juna 1998.  Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)"  Reflex Sympathetic Dystrophy, "The Pain That Doesn't Stop," toc.co.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Wallace, A.L. Draper E.R. C. Strachan, R.K. (McCarthy, I.D. Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-	Ì				
M.C., eds; Churchill Livingstone Inc., New York, Chapter 11.  Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-8(4): 650-655.  Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Utrasound", J. Bone and Joint Surg. (1994), 76-A(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.  Maurice Hilario, "LoW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pothies, B-A., et al., "Aberdad, Biological Repair and Growth Society, Juna 1998.  [RSS]  Phoenix (Business Wire), July 8, 1997 via CompanyLink - OrthoLogic Corp.  "Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner:    Restlict	- [				
J. Bone and Joint Surg. (1985), 67-B(4): 650-655.			M.C., eds; Churchill Livingstor	ne Inc., New York, Chapter 11.	
Heckman, J.D. et al., "Acceleration of Tibial Fracture Healing by Non-Invasive Low-Intensity Pulsed Utrasound", J. Bone and Joint Surg. (1994), 76-A(1): 26-34.  Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Polition, B.A., et al., "Abeland, Biological Repair and Growth Society, June 1908.  RSSI Phoenix (Business Wire), July 8, 1997 via CompanyLink – OrthoLogic Corp.  "Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)"  "Reflex Sympathetic Dystrophy, The Pain That Doesn't Stop," toc.cc.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Wallace, A.L.: Draper E.R.C.: Strachan, R.K.: McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the "In Vitro" Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Fem					the Healing of Experimental Tibial Fractures*,
Bone and Joint Surg. (1994), 76-A(1): 26-34.   Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.   Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.   Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.   Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.   Pothice, B.A., et al., Abelvaet, Biological Repair and Growth Society, June 1908.   TO COPY   Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)   "Reflex Sympathetic Dystrophy," be Pain That Doesn't Stop," tcc.cc.nc.us (06/04/97)   RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)   RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)   Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.   Wallace, A.L.: Draper E.R.C.: Strachan, R.K.: McCarthy, I.D.: Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.   Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.   Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the "In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.   Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.   Pate Considered:   Intial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if	ŀ				
Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672.  Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130.  Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pethies, B.A., et al., Abstract, Biological Repair and Growth Society, Juna 1998.  [RSS]  Phoenix (Business Wire), July 8, 1997 via CompanyLink – OrthoLogic Corp.  "Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)  "Reflex Sympathetic Dystrophy." The Pain That Doesn't Stop," tcc.cc.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy." www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.: Draper E.R.C.; Strachan, R.K.: McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F.et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  [RSS]  Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Date Considered:  [Puth S. Smith]					vasive Low-intensity Pulsed Otrasound", J.
Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pothics, B.A., et al., Abstract, Biological Ropair and Growth Society, Juna 1988.  Phoenix (Business Wire), July 8, 1997 via CompanyLink - OrthoLogic Corp.  "Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)"  "Reflex Sympathetic Dystrophy." The Pain That Doesn't Stop, "toc.c.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy." www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy." www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.: Draper E.R.C.: Strachan, R.K.: McCarthy, I.D.: Hughes, S.P.F., The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the "In Vitro" Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/  Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner:  //Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if	Ī				ssues", JASA (1972), 52(2): 667-672.
Ultrasound", <i>J. Bone and Joint Surg.</i> (1997), 79-A(7) 961-973.  Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125.  Pothice, B.A., et al., Abetraet, Biological Popair and Growth Society, June 1908.  Phoenix (Business Wire), July 8, 1997 via CompanyLink – OrthoLogic Corp.  "Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)"  "Reflex Sympathetic Dystrophy." The Pain That Doesn't Stop," tcc.cc.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy." www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy." www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", <i>Physiotherapy</i> (1987), 73(3): 110-113.  Wallace, A.L.: Draper E.R.C.: Strachan, R.K.: McCarthy, I.D.: Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", <i>Clinical Orthopaedics and Related Research</i> (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", <i>J. Ortho Research</i> (1994), 12: 40-47.  Webster, D.F.et al., "The Role of Ultrasound-Induced Cavitation in the "In Vitro" Stimulation of Collagen Synthesis in Human Fibroblasts", <i>Ultrasonics</i> (1980), 33-37.  /RSS/  Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", <i>J. Ortho Research</i> (1996), 14:802-809.  Examiner:  //Ruth S. Smith/  Date Considered:  //Ruth S. Smith/			Howkins, S.D., "Diffusion Rate	s and the Effect of Ultrasound", Ultrasoni	cs (1969), 129-130.
Interest			Ultrasound", J. Bone and Join	Surg. (1997), 79-A(7) 961-973.	
Reflex Sympathetic Dystrophy, Does RSD Exist?"   www.arbon.com (06/04/97)"   "Reflex Sympathetic Dystrophy, Does RSD Exist?"   www.arbon.com (06/04/97)"   "Reflex Sympathetic Dystrophy."   The Pain That Doesn't Stop, tcc.cc.nc.us (06/04/97)   RSDnet.org "Reflex Sympathetic Dystrophy."   www.rsdnet.org (06/04/97)   RSDnet.org "Reflex Sympathetic Dystrophy."   www.rsdnet.org (06/04/97)   RSDnet.org "Reflex Sympathetic Dystrophy."   www.rsdnet.org (06/04/97)   Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.   Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.   Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.   Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.   Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.   Date Considered:   /Ruth S. Smith/   O7/10/2007   EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if		/RSS/			TISSUE REPAIR OF TROPHIC LEG
"Reflex Sympathetic Dystrophy, Does RSD Exist?" www.arbon.com (06/04/97)"  "Reflex Sympathetic Dystrophy: The Pain That Doesn't Stop," tcc.cc.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Trealment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if	Ì				no copy
"Reflex Sympathetic Dystrophy: The Pain That Doesn't Stop," tcc.cc.nc.us (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy." www.rsdnet.org (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Trealment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if		/RSS/	Phoenix (Business Wire), July	8, 1997 via CompanyLink - OrthoLogic (	Corp.
RSDnet.org "Reflex Sympathetic Dystrophy," <a href="www.rsdnet.org">www.rsdnet.org</a> (06/04/97)  RSDnet.org "Reflex Sympathetic Dystrophy," <a href="www.rsdnet.org">www.rsdnet.org</a> (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", <a href="Physiotherapy">Physiotherapy</a> (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", <a href="Clinical Orthopaedics and Related Research">Clinical Orthopaedics and Related Research</a> (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", <a href="J. OrthoResearch">J. OrthoResearch</a> (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", <a href="Ultrasonics">Ultrasonics</a> (1980), 33-37.  /RSS/  Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", <a href="J. OrthoResearch">J. OrthoResearch</a> (1996), 14:802-809.  Examiner:  Date Considered:  //Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if					
RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97)  Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if					
Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Trealment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if	İ	•	RSDnet.org "Reflex Sympathe	tic Dystrophy," www.rsdnet.org (06/04/97	)
Ter Haar, G., et al., "Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113.  Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Trealment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if	- 1		RSDnet.org "Reflex Sympathe	tic Dystrophy," www.rsdnet.org (06/04/97	) .
Wallace, A.L.; Draper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.F., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 281-290.  Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ontho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ontho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if	1				
Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Rat Femoral Fracture Model", J. Ortho Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if	Ī				
Research (1994), 12: 40-47.  Webster, D.F. et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stimulation of Collagen Synthesis in Human Fibroblasts", Ultrasonics (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", J. Ortho Research (1996), 14:802-809.  Examiner: Date Considered:  /Ruth S. Smith/ 07/10/2007  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if					
Human Fibroblasts", <i>Ultrasonics</i> (1980), 33-37.  /RSS/ Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat Femur Fracture Model", <i>J. Ortho Research</i> (1996), 14:802-809.  Examiner: Date Considered: /Ruth S. Smith/ 07/10/2007  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if			Research (1994), 12: 40-47.	•	,
Femur Fracture Model", J. Ortho Research (1996), 14:802-809.   Examiner:   Date Considered:			Human Fibroblasts", Ultrasoni	cs (1980), 33-37.	
/Ruth S. Smith/ 07/10/2007  EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if		/RSS/			eases Aggrecan Gene Expression in a Rat
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if		Examiner:	/Ruth S. Smith/	Date Considered:	07/10/2007
	Ī		R: Initial if citation considered, w		

Sheet 9 of 10

			Docket No.:		Application No.
	Form PTO-	1449	1	2-205543	09/980,329
	INFO	RMATION DISCLOSURE	Applicant: Winde	er et al.	
		CITATION NAN APPLICATION	Filing Date:	<del></del>	Group Art Unit
		everal sheets if necessary)	March	5, 2002	3737
			A CALL OTHER	RIMATERIAL語應範的對抗	
	Examiner	Including Author, Title, Date,			
no de	Initial		Defects in Bobbito	with SAEHS - Pade Land II, EY	1005.01R EX1006.01R
no da				with SAFHS - Part III, EX1097-0	
	/RSS/	Grate Stanton and L. Datron	"Treetment of Octo	porchandral Defects in Rahhits v	vith SAFHS - A Mosalcplasty Model"
		- Final Report, EX1098-04R	, Treatment of Ost (August 12, 1999).	SOLCHORIGING DETECTS III LABOUR A	Mai Ozi 110 - 7 Mosaispiasty Mees.
		Acoustic Emission - An Upda	ite, by Arthur E. Lor	d, Jr., 1981, Physical Acoustics,	
		Symposium Proceedings (IEE	EE), pp. 77-81		and R. Clinton, 1974, Ultrasonic
		Acoustic Emission in Bone Su Proceedings (ASME), pp. 79-	ubstance, by S. Har 81		pez, 1973, Biomechanics Symposium
		Quality Control pp. 278-293			7, Nondestructive Evaluation and
		Clinton 1975 Ultrasonic Sym	noosium Proceeding	ıs (IEEE), pp. 41-45	oporosis, by S. Hanagud and R. G.
		Sachse Mar 1989 Acquistic	Society of America.	. pp. 787-791	sis, by Igo Grabec and Wolfgang
		Press Ltd. op. 111-115			s, by I. Grabec, 1978, IPC Business
	· /RSS/	Cornejo, et al., "Large-Area F Acceleration " presented at IS	AFXI. Montreux. Sy	witzerland (1998)	site Transducer for Bone Healing
no d	ate	Clough R and I Simmons "	Theory of Acoustic	Emission. Metallurov Division.	national Bureau of Standards. (no
	/RSS/	Fritton, et al., "Whole-Body Vi	25 pp. 831-839 (19	997)	nce-Based Testing Device," Annals of
		Meeting Orthogeadic Research	ch Society, vol. 22.	Sec. 1, Feb. 9-13 (1997)	chondral bone repair 43rd Annual
		J. Kenwright, et al., "Controlle Orthopedics and Related Res	ed Mechanical Stimusearch (1989) 241:3	ulation in the Treatment of Fibial 6-47	Fractures," Orthopedics, Clinical
		Jankovich, "The Effects of Me	echanical Vibration	on Bone Development in the Ra	t," J. Biomechanics, 1972, Vol. 5, pp.
		Ko, "Preform Fiber Architectu	re for Ceramic-Matr	ix Composites, "Ceramic Bulleti	n, Vol. 68, No. 2, pp. 401-414(1989)
		Annual Meeting, Orthopaedic	Research Society,	March 16-19, 1998, New Orlean	ow Level Whole Body Vibration," 44th os, Louisiana, page 89-15
	/RSS	Newnham, et al., "Connectivit (1978)	y and Piezoelectric	-Pyroelectric Composites, Med.	Res. Bull., Vol. 13, pp. 525-536
		- Pouer, "Flexible Piezeeleetre			no date
	/RSS	Pilgrim, et al., "An Extension	of the Composite No	omenclature Scheme, " Med. Re	es. Bull., Vol. 22, pp. 877-894 (1987)
		1001 Ultrasonic Symnosium	nn. 753-766		et Ensemble Scattering Technique,"
		Powell, et al., "Flexible Ultras Theoretical Modeling Approach No. 3, May 1996, pp. 385-392	onic Transducer Arr ch, "IEEE Transaction		es, and Frequency Control," Vol. 43,
	/RSS/	Powell, et al., "Flexible Ultras Assessment of different Array Control," Vol. 43, No. 3, May	Configurations," IE	rays for Nondestructive Evaluati SEE Transactions on Ultrasonics	on Applications – Part II: Performance , Ferroelectrics, and Frequency
	Examiner:	/Ruth S. Smith/		Date Considered: 07/10/	
	EXAMINER not in confo	R: Initial if citation considered, vormance and not considered. In	whether or not citation clude copy of this f	on is in conformance with MPEF form with next communication to	§ 609; Draw line through citation if the applicant.

Sheet 10 of 10

		Docket No.:		Application No.	
Form PTO-	1449		-205543	09/980,329	
	l	Applicant:		M	
INFOR	RMATION DISCLOSURE	Winde	r et al.		
	CITATION			I Consider And I lost	
	I AN APPLICATION  overal sheets if necessary)	Filing Date: March 5	5 2002	Group Art Unit 3737	
			·		
	THE SECTION OF THE SE	POLITICA CONTRACTOR	MAI EUWESSE STATE		
Examiner	Including Author, Title, Date, 8	rerunent Pages, Etc	<b>ž</b> .		
เมนเฮเ	Sarvazvan "Somo General Di	roblems of Riologica	Action of Ultrasound." IEEE 1	ransactions on Sonics and	
/RSS	Ultrasonics, vol. 30, No. 1, Ja-	n. 1983			
/DCC	Ultrasound as a Tool for Inves	stigating Bone: Fun	damental Principles and Persp	ectives for Use in Osteoporosis, by J.	
/KSS/	G. Bloch, 1993, Expanson Sc	ientifique Francaise	,		
Initial Sarvazvan "Some General Problems of Biological Action of Ultrasound," IEEE Transactions on Sonics and					
				no date	
/RSS/	70. No. 3. pp. 424-429 (1991)	•		·	
	Covering Period 04-01-97 to	02-28-98, Rutgers U	Jniversity.	••	
	Grewe, et al., "Acoustic Prope	erties of Particle Pol	ymer Composite for Ultrasonic	Transducer Backing Applications,*	
<b>- </b>	Grewe, Martha G., "Acoustic	Matching And Backi	ng Layer for Medical Ultrasonic	Transducers," A Thesis in Solid State	
	Science, The Pennsylvania S	tate University; (May	y 1989), The Center for Ceram	ics Research, Rutgers.	
	Gururaja, T., "Piezoelectric Co Science. The Pennsylvania S	omposite Materials tate University, May	for Ultrasonic Transducer Appli • 1984.	cations," A Thesis in Solid State	
	Gururaja, "Piezoelectrics for N	Medical Ultrasonic Ir	maging," Am. Ceram. Soc. Bull	., Vol. 73, No. 5, pp. 50-55 (May 1994)	
	Hall, et al., The design and e 1733 (1992)	valuation of ultrasor	nic arrays using 1-3 connectivit	y composites," SPIE, pp. 216-227, Vol.	
<del>                                     </del>	Niemczewski, B., "A Compari	son of Ultrasonic Ca	avitation Intensity in Liquids," U	Iltrasonics, Vol. 18, pp.107-110, 1980.	
<del>                                     </del>	Pilla, et al., "Non-Invasive Lov	w-Intensity Pulsed U	Iltrasound Accelerates Bone H	ealing in the Rabbit," Journal of	
<del>                                     </del>	Orthopaedic Trauma, Vol. 4, I	electric composites	for transducers," J. Phys.Fran	ce, 4:1129-1149 (1994)	
<del>                                     </del>	Selfridge, "Approximate Mate	rial Properties in Iso	tropic Materials," IEEE Transa	ctions on Sonics and Ultrasonics, 9May	
	1985)	1 10F 1- D- 11	Illianania Tonnadi anon for Alam	sinvasive Medical Application * IEEE	
	Souquet, et al., "Design of Lo	w-Loss Wide-Band      IIrasonics_nn=75-8	Ultrasonic Transducers for Nor 31, Vol. SU-26, No. 2, March 19	ninvasive Medical Application," IEEE	
} <del></del>	Waller, et al., "Poling of Lead	Zirconate Titanate	Ceramics and Flexible Piezoele	ectric Composites by the Corona	
	Discharge Technique." J. Am.	. Ceram. Soc., 72(2)	):322-24 (1989)		
	Winder, Alan, "Synthetic Stru-	ctural Imaging and \	Volume Estimation of Biologica	Tissue Organs," ,Acoustic Sciences	
<b></b>	Associates, Dec. 1995.		he Detection I continuing and	Classification of Metabolic Rone	
	Winder, Alan, "Acoustic Emis Disease," Acoustic Sciences	sion Monitoring for t Associates Dec. 10	ine Detection, Localization and 195	Classification of Metabolic Bone	
<del> </del>	Wu and Cubberly, "Measuren	nent of Velocity and	Attenuation of Shear Waves in	Bovine Compact Bone Using	
/RSS/	Ultrasonic Spectroscopy," Me	d. & Biol., Vol. 23, I	No. 1,129-134, 1997.		
	Tavakoli and Evans , 1902 (n	o other information		incomplete	
Examiner:			Date Considered:	0.40007	
	/Ruth S. Smith/	<u> </u>	07/1	0/2007	
EXAMINE	R: Initial if citation considered, v	whether or not citation	on is in conformance with MPE	P § 609; Draw line through citation if	
I not in confe	ormance and not considered. In	icuae copy of this t	OHIT WILL HEAT COMMUNICATION (	o dio oppiiodini	

Sheet 1 of 10

Docket No.:

41482-205543

Application No. 09/980,329

INFORMATION: DISCLOSURE CITATION IN AN APPLICATION

Winder et al.

Filing Date:

Applicant:

Group Art Unit 3737

(Use several sheets if necessary) March 5, 2002 WEST PATIENT DOCUMENTS AND THE PROPERTY OF THE Patent Number Date Patentee Class Subclass Initial IU 32,782 11/15/88 Pratt, Jr. 34,959 05/30/95 Potts 3,134,451 05/26/64 Hanssen RECEIVE 3,193,034 07/06/65 Hutchinson, et al. 3,310,049 03/21/67 Clynes 433,663 03/18/69 Underwood NOV 1 3 2002 3,439,437 03/10/70 Balamuth 3,550,686 12/29/70 Balamuth TECHNOLOGY CENTER R3700 3,594,99 07/27/71 Heyse 3,701,352 10/31/72 Bosworth 3,760,799 09/25/73 Crowson 3,767,195 10/23/73 Dimick 3,828,769 08/13/74 Mettler 3,855,638 2/24/74 Pilliar 3,961,380 06/08/76 Gan 3,986,212 10/19/76 Sauer 4,105,017 08/08/78 Ryaby et al. 4,127,125 11/28/78 Takemoto et al. 4,164,794 08/21/7 Spector, et al. 10/09/79 4,170,045 Estes 4,176,664 12/04/79 Talish 4,206,516 86/10/80 Pilliar 4,216,766 08/12/80 Duykers, at al. 4,227,111 10/07/80 Cross, et al. 4,233,477 11/11/80 Rice, et al. 4,269,797 05/26/81 Mikiya, et al. 4,296,75 10/27/81 Goudin 4,312,536 01/26/82 Lloyd 4,3/5,503 12/16/82 Ryaby et al. 4,351,069 09/28/82 Ballintyn, et al. 4,355,428 10/26/82 Deloison, et al. 4,358,105 11/09/82 Sweeney, Jr. 4,361,154 11/30/82 Pratt, Jr. 4,365,359 12/28/82 Raab 4,383,533 05/17/83 Bhagat et al. 4,421,119 12/20/83 Pratt, Jr. /Ruth S <del>/10**|2**00</del> \$1440,025 04/03/84 Hayakawa, et al. 4,441,486 04/10/84 Pounds miner: Date Considered:

Förm PTO-1449

Docket No.:

Applicant:

Sheet 2 of 10

41482-205543

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)

Winder et al.

Filing Date: March 5, 2002 Group Art Unit 3737

PERSONAL PROPERTY OF	World Colors of Traces			n 5, 2002	Village Western	37	ese valuation	STREET OF THE	<u></u>
		AND VALUE	US PATI	ENT&DOCUMENTS!					
xaminer nitial	Pate	nt Number	Date	Patentee	Cla	ass <sub>.</sub>	Subcla	iss	
NU	4,446,	586	05/08/84	Reed et al.					<del>                                     </del>
	4,452,	326	06/05/84	Hanssen, et al.				1	†
	4,476,	874	10/16/84	Taenzer et al.				$t^{-}$	†
	4,511,		04/16/85	Harlan et al.		1			
	4,530,	360	07/23/85	Duarte		/			<b>†</b>
	4,536,	894	08/27/85	Galante, et al.					
	4,512,		09/24/85	Rowe, Jr., et al.			H	Ct	IVEL
	4,542		09/24/85	Barnes et al.					i
	4,550,	714	11/85	Talish			NO	V 1	B 2002
	4,556,0	066	12/03/85	Semrow				· -	
	4,570,0	540	02/18/86	Barsa		TE	CHNOL	DGY (	CENTER RO
	4,573,9	996	03/04/86	Kwiatek, of al.		•			
	4,594,6	562	06/10/86	Devaney					<del></del>
	4,612,1	60	89/16/86	Donlevy, et al.					<u> </u>
	4,627,4	129	12/09/86	Tsyk				**	
	4,630,3	23	12/23/86	Sage et al.				•	· .
	4,644,9	42 .	02/24/8%	Sump					
	4,677,4	38:	06/30/87	Michiguchi et al					
	4,687,1	95	08/18/9/1	Potts					
	4,708,1	27	11/2/187	Adelghani					
	4,710,6	55	12/01/87	Masaki					
	4,770,1	84	09/13/88	Greene, Jr. et al.		1 1		$\neg$	
	4,726,0	99	02/23/88	Card		$\Box$			
	4,763,6	61	08/16/88	Sommer et al		1			
	4,774,9	59	10/04/88	Palmer et al.		11			
	4,782,8	22/	11/08/88	Ricken		11		İ	
	4,787,0	70	11/22/88	Suzuki et al.		11	<u> </u>		
	4,787,8	88	11/29/88	Fox	1	11			
1	4,792,3		12/20/88	Hlavacek, et al.		$\top$			-
	,802,4	77	02/07/89	Gabbay		T			· · · · ·
	4,830,0		05/16/89	Okazaki					
	4,836,3	16	06/06/89	Carnevale, et al.		1			
	4,855,9	11-	08/08/89	Lele et al.		77			
	4,858,59	99	08/22/89	Halpern		$\sqcap$	A		
	4,867,10	59	09/19/89	Machida et al.	7	11			<del></del>
	4,891,84	19	01/09/90	Robinson	07/10/2	10-1	1,		······
	/Ruth S 3,031,6	71	03/06/90	Senge et al.	-411112	<b>""</b>	−†i	7	
	4,913,15	57	04/03/90	Pratt, Jr. et al.					
141	4,917,09	)2	04/17/90	Todd, et al.	-	$\top$			1
, ,,	0 / 4,926,87	10	05/22/90	Brandenburger	<del></del>		-		$\overline{}$

Sheet 3 of 10 Docket No.: Application No. Form PTO-1449

41482-205543

Applicant: Winder et al.

NEORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)

Filing Date:

March 5, 2002

Group Art Unit 3737

09/980,329

AND CHESTON THE	DY CONTROL CONTROL	Marie up and a Marie and	Warci		TAXABLE IN	37			
			USPATE	NTIDOCUMENTISM					
xaminer nitial		Patent Number	Date	Patentee	CI	ass	Subc	lass	
M		4,932,951	06/12/90	Liboff et al.	+	<u> </u>			<del> </del>
		4,933,230	06/12/90	Card, et al.	$\dashv$	_			<del> </del>
		4,936,303	06/26/90	Detwiler et al.	_		/		
	1	4,941,474	07/17/90	Pratt, Jr.		1	<del> </del>		<del>                                     </del>
		4,947,853	08/14/90	Hon		<del>/                                    </del>	_		<del>                                     </del>
7		979,501	12/25/90	Valchanov et al.	_/	<del>                                     </del>	<del> </del>		<del> </del>
7		4,982,730	01/08/91	Lewis, Jr.	/	Ľ	DEC	71-1	ÆD
		4,986,275	01/22/91	Ishida et al.		1 *	11-	<b>/</b>	<del>                                      </del>
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4,993,413	02/19/91	McLeod et al.	.	1	MOV	1 3	2002
		4,995,883	02/26/91	Demane, et al.	$\top$	1	<del>                                   </del>	1.0.4	1002
		5,000,183	03/19/91	Bonnefous.		L	21010	V CEN	TER R3700
		5,000,442	03/19/91	Dalebout, et al.	+-	HEGH	NULU	DI LIEN	TETT TIOTOS
		5,003,965	04/02/91	Talish et al.	$\top$		_	<b>-</b>	<del> </del> -
		5,004,476	04/02/91	Cook	1				<del> </del>
		5,016,641	05/21/91	Schwartz	1-	1		1	†
		5,018,285	05/28/91	Zolman, et al.	†	1		1-	
		5,046,484	09/10/9	Bassett, et al.	1	1		<del>                                     </del>	<u> </u>
		5,054,490	10/08/91	Rossman et al.	1	1-1		<del> </del>	
		5,067,940	11/26/91	Liboff et al.				1	
		5,080,672	01/14/92	Bollis		1 1			
		5,088,976	02/18/92	Liboff et al.					
		5,099,702	03/31/92	French		17		٠	
		5,100,373	03/31/92	Liboff et al.		11			
		5,103,806	04/14/92	McLeod et a	1	11			
		5,106,361	04/21/92	Liboff et al.	1	11			
		5,107,853	04/28/92	Plyter		$\Box$			
		5,108,4/52	04/28/92	Fallin		П			
		5,132,420	07/28/92	Smith	1				
		5,734,999	08/04/92	Osipov	1				
		5,139,498	08/18/92	Astudillo Ley					
		5,140,988	08/25/92	Stouffer et al.					
		5,143,069	09/01/92	Kwon et al.		7			
		5,143,073	09/92	Dory					
		5,163,598	11/17/92	Peters, et la.			_		
		5,172,692	12/22/92	Kulow et al.					
	/Ruth S	5,178,134 Smith	01/12/93	Vago 0	7/10/20	007	-		
	// (3(// 0)	5,181,512	01/26/93	Viebach, et al.					
1		5,184,605	02/09/93	Grzeszykowski	$\perp T$	T			
		5,186,162	02/16/93	Talish et al.					7
		ø,191,880	03/09/93	McLeod et al.					

Sheet 4 of 10

1 2 2002 W Form PTO-1449

Docket No.: 41482-205543

Application No. 09/980,329

\_\_\_\_

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) Applicant: Winder et al.

Filing Date: March 5, 2002 Group Art Unit

The state of the s		s ii necessary)		1 5, 2002	<u></u>	37		di sa se se se	
		Many Specific		ENT DOCUMENTS					
Examper initial	! [	Patent Number	Date	Patentee	Cla	SS	Subc	lass /	
M	<u> </u>	5,197,475	03/30/93	Antich et al.			1	/-	<u> </u>
1	$\overline{}$	5,201,766	04/13/93	Georgette	++		1-6		<del> </del> -
		5,209,221	05/11/93	Riedlinger	+				<del> </del>
	<del>\</del>	5,211,160	05/18/93	Talish et al.	$\dashv \dashv$				
	<del>\</del>	5,230,334	07/27/93	Klopotek		$-\!\!\!/$	}		
		5,230,345	07/27/93	Curran, et al.	╅	_	<del> </del>	<del>                                     </del>	
-		5,230,921	07/27/93	Waltonen, et al.	+A		101	LAE	IVED
		5,236,981	08/17/93	Hascoet et al.	+		ום	<u> </u>	IVLL
<del>-  </del>		5,254,123	10/19/93	Bushey	4+		l N	h 17 1	3 2002
_		5,259,384	11/09/93	Kaufman et al.	++		N	DAT	D 2002
		5,269,306	12/14/93						ACRITED H
	<del></del>	5,273,028	12/14/93	Warnking, et al.	+		ECHN(	DLOGY	CENTER H
		5,284,143	02/08/94	McLeod, et al.	+				
		5,285,788	02/08/94	Rattner Arenson et al.				<b>_</b>	<u> </u>
					+				
<del></del>		5,295,931	09/22/94	Dreibelbis, et al.	++			<b>\</b>	
-		5,301,683	04/12/94	Darkan	+			<b>-</b>	
		5,307,284	04/26/94	Brunfeldt et al.	4-4-			<b>\</b>	
		5,309,898	05/10/94	Kaufman et al.	++			1	
		5,310,408	05/10/94	Schryver, et al.				1	
		5,314,401	05/24/94	Tepper	1-1-	_		1	
		5,316,000	05/81/94	Chapelon, et al.					
		5,318,561	96/07/94	McLood et al.	1-1-				
		5,318,779	06/07/94	Hakamatsuka, et al.	1				
+-+		5,322,067	06/21/94	Prater et a	11.				
		5,323,769	06/28/94	Bommannan, et al.	1				
		5,327,890	07/12/94	Matura et al.				1	
1		5,330,484	07/19/94	Hood, et al.					
	]	5,330 89	07/19/94	Green, et al.					
		5,374,214	08/02/94	Putnam				1 .	
		5,339,804	08/23/94	Kemp	$\perp \lambda$	$\dashv$			
		5,340,510	08/23/94	Bowen		$ \bot $			
		5,351,389	10/04/94	Erickson et al.		$\Delta$			
		5,363,850	11/15/94	Soni et al.					
1		5,366,465	11/22/94	Mirza			$\Delta$		
		5,367,500	11/22/94	Ng					
$\perp \Lambda$		5,376,065	12/27/94	McLeod et al.					
	/Ruth S. S	<del>5</del> 9480,269	01/10/95		7/10/20	07			
		5,386,830	02/07/95	Powers et al.				V	·
		5,393,296	02/28/95	Rattner					
		5,394,878	03/07/95	Frazin et al.					I
W		5,398,290	03/14/95	Brethour			-		

Sheet 5 of 10

Form PTO-1449

Docket No.: 41482-205543 Application No. 09/980,329

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)

Winder et al.

Filing Date:

Applicant:

March 5, 2002

Group Art Unit

WANTED THE		s II necessary)	March TEADATE	NT/DOCUMENTS	THE REAL PROPERTY.	37			
xammer		Patent Number	Date	Patentee	Cla		Subclas		
nitial		Faterit Number	Date	, alcinee	Cla	133 1	Subcids		
14		5,400,795	03/28/95	Murphy, et al.		1		$\top$	
i		5,405,389	04/11/95	Conta, et al.		1		1	
7		5,409,446	04/25/95	Rattner				1	1
	. /	5,413,550	05/09/95	Castel				1	
		5,415,167	05/16/95	Wilk		1		<del>                                     </del>	
1	`	5,417,215	05/23/95	Evans et al.		1—			
		5,124,550	06/13/95	Kawano et al	/	十	DI	-	
1		5,431,612	07/11/95	Holden	/	1	171	<b>=</b> 0	EIVE
		5,434,827	07/18/95	Bolorforosh	<del></del>	1			9 0000
		5,441,05	08/15/95	Hileman et al	$\neg$	1	N	٠٠٠	<del>3-2002</del>
		5,441,058	08/15/95	Fareed					
1		5,448,994	09/12/95	Iinuma		+	TECHNO	<del>Loc</del>	Y GENTER R
1		5,460,595	10/24/95	Hall, et al.	_	T		1	
1		5,466,215	11/14/95	Lair, et al.		+		1	
		5,468,220	1 1/21/95	Sucher		_		†	
		5,476,438	12/19/95	Edrich, et al.		$\top$			
		5,478,306	12/26/95	Stoner				1	
		5,492,525	02/20/96	Gibney	1	$\top$		<del>                                     </del>	
		5,495,846	03/05/96	Uehara et al.		$\top$			
		5,496,256	03/05/96	Rock et al.		┪			
		5,501,657	03/26/96	Feero	1	-			
		5,507,800	64/16/96	Strickland	_	$\exists$			
1	<del></del>	5,507,830	04/16/96	DeMane et al.		-11			
1	·	5,509,933	04/23/96	Davidson, u al.		$\top$			
1		5,520,612	05/28/96	Winder et al.	1	1			
1 1		5,524,624	06/11/96	Tepper, et al.	<del>                                     </del>	T			
1		5,526,875	06/18/96	Granz, et al.	<b>-</b>	Н			
<del>-11</del>		5,541,489	07/30/96	Dunstan					
		5,547,459	08/20/96	Kaufman et al.					
1 -		5,556,372	09/17/96	Talish et al.	1			1 1	
1		5,578,060	11/26/96	Pohl et al.	1-1	$\Box$		T	
1 1		5,615,466	04/01/97	Safari, et al.	1 1	7			
1 1		5,626,554	05/06/97	Ryaby, et al.	1 1	-			
1-1		5,626,630	05/06/97	Markowitz et al.	1 1				
7 1	/	5,630,837	05/20/97	Crowley	1				
1 1		5,648,941	07/15/97	King	1-1		-A		
1/	/Ruth S.	S6766/6,016	08/12/97		7 10/2	07		abla	
/		5,680,863	10/28/97	Hossack, et al.	+	$\Box$		7	
1		5,690,608	11/25/97	Watanabe, et al.		$\sqcap$		一	$\overline{}$
t 1		5,691,960	11/25/97	Gentilman, et al.		$\dagger \dagger$			$\overline{}$
<del>                                     </del>		\$,699/803	12/23/97	Carodiskey	1 -	<del>/ - [</del>		$\dashv$	-/-

Sheet 6 of 10

MOV 1 2 2002

Form PTO-1449

Docket No.: 41482-205543 Application No.

09/980,329

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
Use several sheets if necessary)

Winder et al.

Filing Date:

Applicant:

March 5, 2002

Group Art Unit

×	~~~	_
	474	•
ı	. J. J	ŧ

STATE OF THE STATE OF	GRAPH PERSONS		ILS PATE	NT DOCUMENTS				e e e e e e e e e e e e e e e e e e e	A CONTRACTOR OF THE CONTRACTOR
Examiner	ALEMAN AND SERVICE	Patent Number	Date	Patentee		lass	Subc	iass	
Initial	L.								
M		5,702,353	12/30/97	Guzzini, et al.					
		5,702,389	12/30/97	Taylor, et al.		T	7		
		5,706,818	01/13/98	Gondo	T	T		$\top$	
		5,708,236	01/13/98	Shaanan, et al.		1	7	7	1.
		5,721,400	02/24/98	Haraldsson, et al.		1		7	
		<b>6,725,482</b>	03/10/98	Bishop	17	/		1	
		5, 128,095	03/17/98	Taylor et al.	1		DE	A-11	15-5
		5,730,705	03/24/98	Talish, et al.	1		LI⊏,	PEI	<del>VED -</del>
	1	5,738,625	04/14/98	Gluck	1		1	· · · · · · · · · · · · · · · · · · ·	<del> </del>
		5,741,317	04/21/98	Ostrow	1		<del> NU                                    </del>	1 3	2002
		5,743,862	04/28/98	Izumi	$\top$	1.	İ	<b>\</b>	
	1	5,755,746	05/26/98	Lifshey, et al.	$\top$	TEC	NOLO	QY CEN	TER R3700
		5,762,616	06/09/98	Talish	$\top$	1		1	
		5,779,600	07/14/98	Pape	T	1	<b> </b>	1	
		5,785,656	0 (28/98	Chizorera, et al.	1	1	<b> </b>	1	<del></del>
	i	5,818,149	10/06/98	Safari et al.	1	1		-1	· · · · · · · · · · · · · · · · · · ·
		5,829,437	11/03/98	Bridges	1				
		5,868,649	02/09/99	Erickson, et al.	†	T	<b></b> -		
		5,871,446	02/16/98	Wilk	<del>                                     </del>		<del>                                     </del>		
		5,886,302	03/23/99	Sermanton, et al.	$\dagger$	1	-		
		5,891,143	04/06/99	Taylor et al.	1	$\top$			
		5,899,425	\$5/04/99	Corey Ir., et al.	1				<del></del> -
		5,904,659	05/18/99	Duarte, & al.		1	<del> </del>		
		5,957,814	09/28/99	Eschenback	+	<del>                                     </del>	ļ		
		5,971,984	10/26/99	Taylor et al.	T				
		5,997,490	12/07/99	McLeod, et al.	$\Box$			$\neg \neg$	
		6,019,710	02/01/00	Dalebout, et al.				1	<u>-</u>
		6,022,349	02/08/00	McLeod, et al.	П				
		6,020,386	02/29/00	Taylor et al.				7	
	· ·	6,068,596	05/30/00	Weth, et al.				1 1	
		6,080,088	06/27/00	Petersen, et al.					
		6,086,078	07/11/00	Ferez					
		6,093,135	07/25/00	Huang					
		6,165,144	. 12/26/00	Talish, et al.					
		6,179,797	01/30/01	Brotz			1		
		6,206,843	03/2001	Iger, et al.					
	/Ruth S.	S60,041h3,958	04/10/01	Winder 07	10/2	007			
		6,261,221	07/17/01	Tepper, et al.		П			
		6,261,249	07/17/01	Talish, et al.		1			
		6,273,864	08/14/01	Duarte					
jų	. 1	6,3/60,027	03/19/02	Hossack et al.			1		
Examiner:	-//	$\chi$ /		Date Considered:	1				

Sheet 7 of 10

Form PTO-1449

Docket No.: 41482-205543 Application No. 09/980,329

INFORMATION DISCLOSURE

Winder et al.

CITATION
IN AN APPLICATION
Joe several sheets if necessary)

Filing Date: March 5, 2002

Applicant:

Group: Art Unit 3737

ELECTRIC LEGISLA	VOLUMENT CAR	Market Color	ONTIDES	OCHMENTERS	THE STATE OF THE S	A STATE OF THE PARTY OF THE PAR	
Examiner		Document Number	Date	Country	Class	Subclass	Translation
Initial		Doomingut Mannagi	Date	Country	Ciass	Jubilass	Translation
1		WO 85/03449	08/15/85	PCT	1		
		2156983A	10/16/85	UK			
		0 181 506 A2	05/21/86	Europe			
	1	SHO 62[1987]-47359	03/02/87	JAPAN			
	1	DE 3639263 A1	06/25/87	Germany			
		WO 88/00845	02/11/88	PCT		RECEIL	/En
		WO 88/02250	04/07/88	PCT			
		331 848 A1	09/06/89	Europe		VOV 1 3 2	າດວ
		WO 9006720	06/28/90	PCT			WE
		DE 41\11055 A1	10/10/01	Germany	TECHN	OLOGY CENT	ED Dozoe
	<del></del>	HEI 4[1992] 82567	03/16/92	JAPAN			<u>-u н¹√00</u>
		HEI 4[1992]-80568	03/16/92	JAP <b>A</b> N			
	<u> </u>	HEI 4[1992]-82569	03/16/92	JAPAN			
		0 536 875 A1	04/14/93	Europe			
		HEI 5[1993]-269159	10/19/93	JAPAN			
		1,328,485	04/12/94	CA			
11	1	WO 94/13411	06/23/94	PCT			
17	$\mathcal{J}$	2277448A	11/02/94	UK			
1		WO 95/03744	02/09/05	PCT			
		0 679 371 A1	11/02/93	Europe			
2.1		WO 95/33416	12/14/95	PCT		:	
1) / 1	(	EP 0 695 559	02/07/96	Europe			
111	-	WO 96/25112	08/22/96	PÇT			
1	···	WO 96/25888	08/29/96	PCK			
		DE 19613428	01/16/97	Germany			
		2 303 552 A	02/26/97	UK			
		WO 97/33649	09/18/97	PCT			
		WO 88/10729	03/19/98	PCT			
		W/O 98/34578	08/13/98	PCT			
		WO 98/47570	10/29/98	PCT			
		DE 298 11 185 U1	12/11/98	Germany			
		WO 99/18876	04/22/99	PCT	1		
		WO 99/22652	05/14/99	PCT	-		
		WO 99/48621	09/30/99	PCT			
	/	WO 99/56829	11/11/99	PCT			
		WO 00/28925	05/25/00	PCT			
	/Ruth S.	6rtilio 00/03663*	01/27/00	PCT 07/	10/2007		
		AU 199950292	02/07/00	Australia			
		WO 00/71207	11/30/00	PCT			
		WQ Q0/76404	12/21/00	PCT			
xaminer:	<del>-//-/</del> /	11		te Considered:		<del></del>	7

Sheet 8 of 10

Docket No.: Form PTO-1449 41482-205543 Applicant: \* INFORMATION DISCLOSURE Winder et al. CITATION IN AN APPLICATION Filing Date: (Use several sheets if necessary): March 5, 2002 A TOTHER MATTERIAL STATE OF THE PLANTAGE OF TH Including Author, Title, Date, Pertinent Pages, Etc.

Application No. 09/980,329 Group Art Unit 3737

ABSTRACT, (Proceedings of the 11th Int'l. Conference on Medical and Biological Engineering VULTRASONIC TIMULATION OF FRACTURE HEALING", 1976. ASTRACT, (Proceedings of the III Congress on Biomedical Engineering) "ULTRASONIC ACTION ON CALLUS FORMATION IN BONES", 1975. ABSTRACT, (Proceedings of the IV Brazilain Congress on Biomedical Engineering) JULTRASOUND IN THE TREATMENT OF FRACTURES", 1977. ASTM Designation: D790M-93 Metric, "Standard Test Methods for flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric]", pp. 176-184, (Dec. 1993). ASTM Designation, C1161-90, "Standard Test Method for Flexural Strength Advanced Ceramics at Ambient Temperature, " p. 324-330.(Feb. 1991) Brochure: "The Science Behind the Technology," distributed by Smith & Nephew for EXOGEN. (no date) Aral et al., "THE EFFECT OF ULTRASOUND STIMULATION ON DISUSE OSTEOPOROSIS", BRAGS 17, 1993. Berridge, M.J., "Inositol Trisphosphate and Calcium Signaling", Nature (1993), 361: 315-325. Clarke, P.R. et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells", JASA (1969), 47(2): 649-653. Duarte, L.R., "The Stimulation of Bone Growth by Ultrasound", Irch. Orthop. Trauma Surg (1983), 101: 153-159. Dyson, M., "Therapeutic Applications of Ultrasound", Biological Effects of Ultrasound (1985), Nyborg, W.L. and Ziskin, M.C., eds; Churchill Livingstone Nc., New York, Chapter 1 Goodship, A.E. et al., "The Influence of Induced Micromovement Upon the Healing of Experimental Tibial Fractures", J. Bone and Joint Surg. (1985), 67-B(1): 650-655. Heckman, J.D. et al., "Acceleration of Thial Fracture Healing by Non-Invasive Low-Intensity Pulsed Utrasound", J. Bone and Joint Surg. (1994), 76-A(1): 26-34 Hill, C.R., "Ultrasonic Exposure Thresholds for Changes in Cells and Tissues", JASA (1972), 52(2): 667-672. Howkins, S.D., "Diffusion Rates and the Effect of Ultrasound", Ultrasonics (1969), 129-130. Kristiansen, T.K. et al., "Accertated Healing of Distal Radial Fractures with the Use of Specific, Low-Intensity Ultrasound", J. Bone and Joint Surg. (1997), 79-A(7) 961-973.

Maurice Hilario, "LOW-INTENSITY ULTRASOUND RADIATION IN THE TISSUE REPAIR OF TROPHIC LEG ULCERS", 1983, University of Sao Paulo, pp. 1-125. Pethica, B.A., et al., Abstract, Biological Repair and Growth Society, June 1998. Phoenix (Business Wire), July 8/1997 via CompanyLink - OthoLogio Corp.
"Reflex Sympathetic Dystrophy", Does RSD Exist?" <a href="www.arbon.com">www.arbon.com</a> (06/04/97)" "Reflex Sympathetic Dystrochy: The Pain That Doesn't Stop," tcacc.nc.us (06/04/97) RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/97) RSDnet.org "Reflex Sympathetic Dystrophy," www.rsdnet.org (06/04/9) Ter Haar, G., et al. Basic Physics of Therapeutic Ultrasound", Physiotherapy (1987), 73(3): 110-113. Wallace, A.L.; Druper E.R.C.; Strachan, R.K.; McCarthy, I.D.; Hughes, S.P.X., "The Vascular Response to Fracture Micromovement", Clinical Orthopaedics and Related Research (1994), 301: 231-290.

Examiner:

Research (1994), 12: 40-47.

Human Fibroblasts", Ultrasonics (1980), 33-37.

Femur Fracture Model", J. Ortho Research (1996), 14:802-809.

Date Considered:

Webster D.F.et al., "The Role of Ultrasound-Induced Cavitation in the 'In Vitro' Stim dation of Collagen Synthesis in

Yang, K.H. et al., "Exposure to Low-Intensity Ultrasound Treatment Increases Aggrecan Gene Expression in a Rat

Wang, S.J. et al., "Low-Intensity Ultrasound Treatment Increases Strength in a Nat Femoral Fracture Model", J. Ortho.

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPED 6699; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

RECEINED

NOV 1 3 2002

TECHNOLOGY CENTER R3708

Docket No.: Application No.: Form PTO-1449 41482-205543 09/980,329 Applicant: INFORMATION DISCLOSURE Winder et al. CITATION IN AN APPLICATION Filing Date: Group Art Unit (Use several sheets if necessary) March 5, 2002 3737 OTHER MATERIAL MARKET Including Author, Title, Date, Pertinent Pages, Etc. Initial "Treatment of Osteochondral Defects in Rabbits with SAFHS – Parts I and II, EX1095-01R, EX1096-01R reatment of Osteochondral Defects in Rabbits with SAFHS - Part III, EX1097-01R (August 26, 1997). Cook, Stephen and L. Patron, "Treatment of Osteorchondral Defects in Rabbits with SAPHS - A Mosaicplasty Model" Report, EX1098-04R (August 12, 1999). Acoustic Emission - An Update, by Arthur E. Lord, Jr., 1981, Physical Acoustics, vgf. XV, pp. 295-360 mission and Diagnosis of Osteoporosis, by S. Hanagud, G. T. Hannon and R. Clinton, 1974, Ultrasonic Symposium Proceedings (IEEE), pp. 77-81 Acoustic Emission in Bone Substance, by S. Hanagud, R.G. Clinton and J.P. Lopez, 1973, Biomechanics Symposium Proceedings (ASME), pp. 79-81 Acoustic Emission aspection, by Adrian A. Pollock, 1992, ASM Handbook, vol. 17, Nondestructive Evaluation and Quality Control, pp. 278-293 Acoustic Emission Techniques in the Development of a Diagnostic Tool for Osteoporosis, by S. Hanagud and R. G. Clinton, 1975, Ultrasonic symposium Proceedings (IEEE), pp. 41 Application of an intelligent sonal processing system to acoustic emission analysis, by Igo Grabec and Wolfgang Sachse, Mar. 1989, Acoustic Society of America, pp. 787-791

Application of correlation techniques for localization of acoustic emission sources, by I. Grabec, 1978, IPC Business Press Ltd., pp. 111-115 Cornejo, et al., "Large-Area Flexible Aray Piezoelectric Ceramic/Polymer composite Transducer for Bone Healing Acceleration," presented at ISAFXI, Mostreux, Switzerland (1998) Clough, R. and J. Simmons, "Theory of Apoustic Emission," Metallurgy Division, national Bureau of Standards. (no date). Fritton, et al., "Whole-Body Vibration in the Six leton; Development of a Resonance-Based Testing Device," Annals of Biomedical Engineering, Vol. 25, pp. 831-836 (1997) Goodship, et al., "Low magnitude high frequency mechanical stimulation of endochondral bone repair" 43rd Annual Meeting Orthopeadic Research Society vol. 22, Sec 1, Feb. 9-13 (1997) J. Kenwright, et al., "Controlled Mechanical Stimulation in the Treatment of Fibial Fractures," Orthopedics, Clinical Orthopedics and Related Research (1989) 241:36-47 Jankovich, "The Effects of Mechanical Vibration on Bone Development in the Rat," J. Biomechanics, 1972, Vol. 5, pp. 241-250 Ko, "Preform Fiber Architecture for Ceramic-Matrix Composites, "Ceramic Bulletin, Vol. 68, No. 2, pp. 401-414(1989) McLeod, et al., "Improved Postural Stability Following Short Term Exposure to Low Level Whole Body Vibration," 44th Annual Meeting, Orthopeedic Research Society, March 16-19, 1998 New Orleans, Louisiana, page 89-15 Newnham, et al., "Connectivity and Piezoelectric-Pyroelectric Composites, Med. Res. Bull., Vol. 13, pp. 525-536 (1978)Pauer, "Flexible Plezoelectric Material, " pp. 1-5, (no date) An Extension of the Composite Nomenclature Scheme, "Med Res. Bull., Vol. 22, pp. 877-894 (1987) Pilgrim, et al., Powell, et al. "A Performance Appraisal of Flexible Array Structures Using a Facet Ensemble Scattering Technique," 1991 Ultrasonic Symposium, pp. 753-766 Powell et al., "Flexible Ultrasonic Transducer Arrays for Nondestructive Evaluation Applications - Part 1: The Theoetical Modeling Approach, "IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control," Vol. 43. No. 3, May 1996, pp. 385-392. Powell, et al., "Flexible Ultrasonic Transducer Arrays for Nondestructive Evaluation Applications - Part II: Performance Assessment of different Array Configurations," IEEE Transactions on Ultrasonics, Ferroelectics, and Frequency, Control," Vol. 43, No. 3, May 1996, pp. 393-402. Date Considered: Examiner Ruth S. Sh D7/10/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

It in conformance and not considered. Include copy of this form with next communication to the applicant.

RECEIVED

NOV 1 3 2002

Docket No.:
41482-205543

Application(No.)
41482-205543

O9/98

Applicant:
Winder et al.
CITATION
IN AN APPLICATION
IN AN APPLICATION
Use several sheets if necessary)

Filing Date:
March 5, 2002

3737

公里 WOTHER MATERIAL TO THE MAT Including Author, Title, Date, Pertinent Pages, Etc. Initial Sarvazyan, "Some General Problems of Biological Action of Ultrasound," IEEE Transactions of Sonics and Ultrasonics, vol. 30, No. 1, Jan. 1983 Ultrasound as a Tool for Investigating Bone: Fundamental Principles and Perspectives for Use in Osteoporosis, by J. G. Blood, 1993, Expanson Scientifique Française K. Qin, e.al., "Correlation of In Vivo Bone Adaptation and Mechanical Parameters Using Low Magnitude, High Frequency loading," 41st Annual Meeting Orthopaedic Research Soc., vol. 20 - Sep 1, Feb. 13-16 (1955) Bascom, "Other Continuous Fibers," 118/Constitutent Material Form Bascom, "Other Discontinuous Forms," 120/Constituent Material Forms Cass, "Fabrication of Continuous Ceramic Fiber by the Viscous Suspension Spinning Process," Ceramic Bulletin, Vol. 70, No. 3, pp. 424-429 (1991) "Development of Flexible Pieoelectric Transducers and Matching Layer for EXOGEN Incorporated," Final Report, Covering Period 04-01-9 to 02-28-98, Rutgers University. Grewe, et al., "Acoustic Properties of Particle Polymer Composite for Ultrasonic Transducer Backing Applications," IEEE, (1990) Grewe, Martha G., "Acoustic Marching And Backing Layer for Medical Ultrasonic Transducers," A Thesis in Solid State Science, The Pennsylvania State University; (May 1989), The Center for Ceramics Research, Rutgers. Gururaja, T., "Plezoelectric Composite Materials for Ultrasonic Transducer Applications," A Thesis in Solid State Science, The Pennsylvania State University, May 1984, Gururaja, "Piezoelectrics for Medical Ultrasonic Imaging," Am. Ceram. Soc. Bull., Vol. 73, No. 5, pp. 50-55 (May 1994) Hall, et al., "The design and evaluation of uncasoning arrays using 1-3 connectivity composites," SPIE, pp. 216-227, Vol. 1733 (1992) Niemczewski, B., "A Comparison of Ultrasonic Savitation Intensity in Liquids," Ultrasonics, Vol. 18, pp.107-110, 1980. Pilla, et al., "Non-Invasive Low-Intensity Pulled Ulhasound Accelerates Bone Healing in the Rabbit," Journal of Orthopaedic Trauma, Vol. 4, No. 3, pp. 246-253 (1990) mposites for transducers," J. Phys. France, 4:1129-1149 (1994) Safari, "Development of piezoelectric of Selfridge, "Approximate Material Properties in Isotropic Materials," IEEE Transactions on Sonics and Ultrasonics, 9May 1985) Souquet, et al., "Design of Low-Yoss Wide-Band Ultrasonic Transducers for Noninyasive Medical Application," IEEE Transactions on Sonics and Utrasonics, pp. 75-81, Vol. SU-26, Vo. 2, March 1979 Waller, et al., "Poling of Lead Zirconate Titanate Ceramics and Flexible Piezoelectric Composites by the Corona Discharge Technique," J. Am. Ceram. Soc., 72(2):322-24 (1989) Winder, Alan, "Synthetic Structural Imaging and Volume Estimation of Riological Tissue Organs," ,Acoustic Sciences Associates, Dec. 1996 Winder, Alan, "Acoustic Emission Monitoring for the Detection, Localization and Classification of Metabolic Bone Disease," Acoustic Sciences Associates, Dec. 1995. Wu and Cubbsfly, "Measurement of Velocity and Attenuation of Shear Waves it Bovine Compact Bone Using Ultrasonic Spectroscopy," Med. & Biol., Vol. 23, No. 1,129-134, 1997. Tayakoli and Evans, 1992 (no other information available at this time) Date Considered: Examiner:

Ipilial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

ance and not considered. Include copy of this form with next communication to the applican

/Ruth S. Smith/

07/10/2007

RECEIVED

Sheet 10 of 10

09/980,329

NOV 1 3 2002

**TECHNOLOGY CENTER R3700** 

100

						Sheet 1 of 1				
Form PTO-	.1449		Docket No.: 41482/205543			Application No.				
Tomin 10		ŀ	Applicant:	2/205543	L	09/980	),329			
INFORMATION DISCLOSURE CITATION			• •	Alan A. Winder						
	N AN APPLI		Filing Date:	······································	Gro	up Art Unit				
		s if necessary)		h 5, 2002	37:	37 '				
			U.S. PATE	NT DOCUMENTS						
Examiner Initial	·	Patent Number	Date	Patentee	Class	Subclass	Translation			
/RSS/		4,689,986	09/01/87	Carson, et al.						
/RSS/		5,962,790	10/05/99	Lynnworth, et al.						
/RSS/		6,088,613	07/11/00	Unger						
		<u> </u>								
		<u> </u>								
			<u> </u>							
		<u> </u>								
		<u> </u>								
<del></del>	, <u>.</u>		NON U.S	DOCUMENTS .						
		WO 99/38080	11/18/99	PCT						
		0 965 839 A1	12/22/99	Europo						
		WO 00/76406	12/21/00	PCT		, 1				
	o copie									
	7 6051	- S								
			<u> </u>							
		<u> </u>								
			OTHE	RMATERIAL	· · ·					
				Roseamh, No. 342:264-2						
			ne and Joint Surg	1007, 74 B:650-667 (1002)	<u> </u>					
		copies	<del></del>							
		· · · · · · · · · · · · · · · · · · ·					• • • • • • • • • • • • • • • • • • • •			
		<del></del>				<del></del>				
Examiner:		Ruth S. Smith/			)7/10/2007					
EXAMINER:	: Initial if cita	ation considered, wh	ether or not citation	on is in conformance with lorm with next communicat	MPEP § 609	; Draw line thro	ough citation if			
not in como	mance and	not considered. Inci	idue copy or tris it	onn with next communicat	iion to the ap	iplicant.				

Sheet 1 of 1 Docket No.: Application No. Form PTO-1449 41482/205543 09/980,329 Applicant: INFORMATION DISCLOSURE Alan A. Winder, et al. CITATION IN AN APPLICATION Filing Date: Group Art Unit (Use several sheets if necessary) March 5, 2002 3737 UIS PATENT DOCUMENTS Examiner Patent Number Date Patentee Class Subclass Translation Initial /RSS/ 1,604,870 10/26/1926 Asman 3,304,036 02/14/1967 Davis 4,037,592 07/26/1977 Kronner 4,108,165 08/22/1978 Kopp, et al. 4,431,038 02/14/1984 Rome 4,669,483 06/02/1987 Hepp, et al. 6,394,955 B1 05/28/2002 Perlitz 6,355,006 B1 03/12/2002 /RSS/ Ryaby, et al. NON U.S. DOCUMENTS OTHER MATERIAL Date Considered: /Ruth S. Smith/ 07/10/2007 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if

not in conformance and not considered. Include copy of this form with next communication to the applicant.

1547788